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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

01/24/2011

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

CHUO, TONY SHENG HSIANG

ART UNIT PAPER NUMBER

1729

DATE MAILED: 01/24/2011

	APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/583,412	06/20/2006	Masashi Otsuki	Q95438	3565

TITLE OF INVENTION: NON-AQUEOUS ELECTROLYTE FOR CELL, NON-AQUEOUS ELECTROLYTE CELL HAVING THE SAME AS WELL

AS ELECTROLYTE FOR POLYMER CELL AND POLYMER CELL HAVING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/25/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 23373 7590 01/24/2011					tion of maintenance fees will be mailed to the current correspondence address as we correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must				
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SUGHRUE M 2100 PENNSYI SUITE 800	ION, PLLC LVANIA AVENUE]	Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the Un States Postal Service with sufficient postage for first class mail in an envel addressed to the Mail Stop ISSUE FEE address above, or being facsin transmitted to the USPTO (571) 273-2885, on the date indicated below.					ed with the United nail in an envelope or being facsimile ated below.	
WASHINGTON	N, DC 20037								(Depositor's name)
			ļ						(Signature)
			l						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	FOR		ATTO	RNEY DOCKET NO.	CONF	IRMATION NO.
10/583,412	06/20/2006	•	Masashi Otsuki	ki (Q95438		3565
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nonprovisional	NO	\$1510	\$300		\$0		\$1810		04/25/2011
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CHUO, TONY S	HENG HSIANG	1729	429-326000						
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA	" Indication form	data will appear on th	native ingle or ag attori l be p r type	firm (having as a gent) and the nam neys or agents. If the printed.	memb es of u no nam	er a 2 p to le is 3	ocument	has been filed for
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5. Change in Entity Sta	i tus (from status indicate ns SMALL ENTITY stati	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no	longe	er claiming SMAl	L EN	ΓΙΤΥ status. See 37 CI	R 1.270	g)(2).
NOTE: The Issue Fee an	nd Publication Fee (if rea	uired) will not be accepte tes Patent and Trademark	d from anyone other th						
Authorized Signature					Date				
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/583,412	06/20/2006	Masashi Otsuki	Q95438	3565		
23373 75	590 01/24/2011	EXAMINER				
SUGHRUE MIC	N, PLLC	CHUO, TONY SHENG HSIANG				
	ANIA AVENUE, N.W	ART UNIT	PAPER NUMBER			
SUITE 800 WASHINGTON, I	DC 20037		1729 DATE MAILED: 01/24/2011			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 715 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 715 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/583,412	OTSUKI ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Tony Chuo	1729		
	Tony Chuo	1729		
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is sometimes.	n this application. If not included unication will be mailed in due co	ourse. THIS	
1. $igstyle$ This communication is responsive to <u>Amendment after No</u>	n-Final Rejection filed on 11	<u>/19/10</u> .		
2. X The allowed claim(s) is/are 1,6,7,10 and 11.				
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).		
2. ☐ Certified copies of the priority documents have		nn No		
3. ☑ Copies of the certified copies of the priority do	• • •		on from the	
International Bureau (PCT Rule 17.2(a)).	cuments have been received	a III tilis Hational stage applicatio	ii iioiii tiie	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requ	irements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review	v (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	,			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ack) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			te the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of In	formal Potent Application		
 Notice of herefetices Gled (P10-692) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	_	formal Patent Application ummary (PTO-413),		
	Paper No.	/Mail Date		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🗌 Examiner's	Amendment/Comment		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's	Statement of Reasons for Allow	ance	
	9. 🗌 Other	_•		

Allowable Subject Matter

1. Claims 1, 6, 7, 10, and 11 are allowed.

The following is an examiner's statement of reasons for allowance:

Otsuki et al (WO/2003/005479) discloses a non-aqueous electrolyte cell comprising: a positive electrode, a negative electrode, and an electrolyte comprising: an aprotic organic solvent such as ethylene carbonate (boiling point=238 °C), propylene carbonate (boiling point=242 °C), dimethyl carbonate (boiling point=90 °C), ethyl methyl carbonate (boiling point=108 °C), diethyl carbonate (boiling point=127 °C), wherein a combination of two or more aprotic organic solvents is preferable; a support salt; and a phosphazene derivative represented by general formula (3). It also discloses that the phosphazene derivative is a mixture of components in which the ratio of methoxy group (MO) to fluorine (F) in all Xs of the formula (3) (MO/F ratio) is 2/4, 3/3 (boiling point=230 °C), and 4/2, wherein the phosphazene derivative is mixed with an aprotic organic solvent (mixed solvent of ethylene carbonate (boiling point=238 °C) and diethyl carbonate (boiling point=127 °C)).

However, Otsuki et al does not expressly teach adding to each of the aprotic organic solvents a phosphazene compound having a difference of a boiling point from that of the respective aprotic organic solvent of not more than 25 °C and the number of kinds of the phosphazene compound is equal to that of the aprotic organic solvents. In addition, the applicants have demonstrated unexpected results of reducing the risks of ignition in and out of the cell when the difference in boiling point between the

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Art Unit: 1729

phosphazene compound and the respective aprotic organic solvent is not more than 25 ℃.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Chuo whose telephone number is (571)272-0717. The examiner can normally be reached on M-F, 9:00AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ula Ruddock can be reached on (571) 272-1481. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ula C Ruddock/ Supervisory Patent Examiner, Art Unit 1795